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1 [Final report of the ANSI/X3/SPARC DBS-SG relational database task group](#)


 July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(4.69 MB\)](#) Additional Information: [full citation](#)

2 [Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science](#)



William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young

 March 1968 **Communications of the ACM**, Volume 11 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(6.63 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

3 [Revised Report of the Algorithmic Language Algol 68](#)



A. van Wijngaarden

 August 1981 **ALGOL Bulletin**, Issue Sup 47

Publisher: Computer History Museum

 Full text available: [pdf\(9.20 MB\)](#) Additional Information: [full citation](#), [index terms](#)

4 [Types and persistence in database programming languages](#)



Malcolm P. Atkinson, O. Peter Buneman

 June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(7.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

5 Status report of the graphic standards planning committee



Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

6 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems



Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)

8 Technical reports



SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: [pdf\(5.28 MB\)](#) Additional Information: [full citation](#)

9 A data definition and mapping language for numerical data bases



Ola-Olu A. Daini, Peter Scheuermann

January 1980 **Proceedings of the ACM 1980 annual conference**

Publisher: ACM Press

Full text available: [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Numerical data bases arise in many scientific applications to keep track of large sparse and dense matrices. Unlike the many matrix data storage techniques available for incore manipulation, very large matrices are currently limited to a few compact storage schemes on secondary devices, due to the complex underlying data management facilities. This paper proposes an approach for generalized numerical database management that would promote physical data independence by relieving users from t ...

10 Data base directions: the next steps

John L. Berg

November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2**Publisher:** ACM PressFull text available: [pdf\(9.95 MB\)](#) Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

11 Proceedings of the SIGNUM conference on the programming environment for development of numerical softwareMarch 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1**Publisher:** ACM PressFull text available: [pdf\(5.02 MB\)](#) Additional Information: [full citation](#)**12** Conversion technology, an assessment

James P. Fry

July 1981 **ACM SIGMIS Database , ACM SIGMOD Record**, Volume 12,13 , 12 Issue 4,1 , 2**Publisher:** ACM PressFull text available: [pdf\(2.36 MB\)](#) Additional Information: [full citation](#), [references](#)**13** Revised report on the algorithmic language scheme

H. Abelson, R. K. Dybvig, C. T. Haynes, G. J. Rozas, N. I. Adams, D. P. Friedman, E. Kohlbecker, G. L. Steele, D. H. Bartley, R. Halstead, D. Oxley, G. J. Sussman, G. Brooks, C. Hanson, K. M. Pitman, M. Wand

July 1991 **ACM SIGPLAN Lisp Pointers**, Volume IV Issue 3**Publisher:** ACM PressFull text available: [pdf\(4.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The report gives a defining description of the programming language Scheme. Scheme is a statically scoped and properly tail-recursive dialect of the Lisp programming language invented by Guy Lewis Steele Jr. and Gerald Jay Sussman. It was designed to have an exceptionally clear and simple semantics and few different ways to form expressions. A wide variety of programming paradigms, including imperative, functional, and message passing styles, find convenient expression in Scheme.

14 Automatically extracting structure and data from business reports

Stephen W. Liddle, Douglas M. Campbell, Chad Crawford

November 1999 **Proceedings of the eighth international conference on Information and knowledge management****Publisher:** ACM PressFull text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A considerable amount of clean semistructured data is internally available to companies in the form of business reports. However, business reports are untapped for data mining, data warehousing, and querying because they are not in relational form. Business reports have a regular structure that can be reconstructed. We present algorithms that automatically infer the regular structure underlying business reports and automatically generate wrappers to extract relational data.

Keywords: automatic wrapper generation, business reports, data and information extraction, regular expressions, report structure

15 Level set and PDE methods for computer graphics

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press


Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

16 Fortran 8X draft

 Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press


Full text available:  [pdf\(21.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...


17 Draft Proposed: American National Standard—Graphical Kernel System

 Technical Committee X3H3 - Computer Graphics
February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Publisher: ACM Press

Full text available:  [pdf\(16.07 MB\)](#) Additional Information: [full citation](#)

18 Revised5 report on the algorithmic language scheme

 N. I. Adams, D. H. Bartley, G. Brooks, R. K. Dybvig, D. P. Friedman, R. Halstead, C. Hanson, C. T. Haynes, E. Kohlbecker, D. Oxley, K. M. Pitman, G. J. Rozas, G. L. Steele, G. J. Sussman, M. Wand, H. Abelson
September 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 9

Publisher: ACM Press

Full text available:  [pdf\(4.44 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

19 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

20 Draft Report on the Algorithmic Language ALGOL 68

A. Van Wijngaarden, B. J. Mailloux, J. Peck, C. H. A. Koster

March 1968 **ALGOL Bulletin**, Issue Sup 26**Publisher:** Computer History MuseumFull text available:  [pdf\(6.16 MB\)](#) Additional Information: [full citation](#), [index terms](#)

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